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What is claimed is;

- 1. An immunostimulating peptide having an amino acid sequence $X_1LYQYMDDV$, wherein X_1 is any hydrophobic amino acid.
- 2. The immunostimulating peptide of claim 1, wherein the amino acid sequence is VLYQYMDDV.
 - 3. A medicament comprising:
 - i) the immunostimulating peptide of claim 1; and,
 - ii) a pharmaceutically acceptable excipient.
- 4. The medicament of claim 3, further comprising an immunostimulant.
- 5. A method for preventing or treating an HIV-1 infection comprising administering a dose of the medicament of claim 3 in an amount effective to induce an immune response capable of preventing HIV-1 infection or reducing HIV-1 viral load in a patient.
 - 6. The method of claim 5, wherein the patient is a human.
- 7. A immunostimulating peptide or protein comprising the sequence $X_1X_2YQYMDDVX_3$ wherein

X1 is a sequence of amino acid residues of between 0 and 200 residues in length;

X2 is any hydrophobic amino acid; and,

X3 is a sequence of amino acid residues of between 0 and 200

residues in length.

8. A medicament comprising a vector including a nucleic acid comprising a nucleotide sequence encoding a peptide having the sequence X₁LYQYMDDV, wherein X₁ is any hydrophobic amino acid,

wherein introducing the medicament to a subject results in

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expression of the nucleic acid, thereby inducing an immune response in the subject directed against an epitope of a product encoded by the nucleic acid.

- 9. The medicament of claim 8, wherein the vector is a virus.
- 10. A method for preventing or treating an HIV-1 infection comprising administering a dose of the medicament of claim 8 in an amount effective to induce an immune response capable of preventing HIV-1 infection or reducing HIV-1 viral load in a patient.
- 11. A method of assessing immune function or diagnosing exposure to HIV-1 for a subject, the method comprising:
- i) contacting a blood sample comprising T cells obtained from the subject with a peptide having an amino acid sequence $X_1LYQYMDDV$, wherein X_1 is any hydrophobic amino acid; and,
- ii) determining an immune response of the subject's T cells to the peptide.

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- 12. The method of claim 11, wherein said determining step (ii) is performed by assaying for IFN-γ production, or lysis of cells displaying the peptide by cytotoxic T lymphocytes induced with the peptide.
- 13. A fusion molecule comprising an amino acid sequence $X_1LYQYMDDV$, wherein X_1 is any hydrophobic amino acid.
- 14. The fusion molecule of claim 13, further comprising an amino acid sequence for an HIV-1 viral protein
- 15. The fusion molecule of claim 13, further comprising a glycolipid.
- 16. The fusion molecule of claim 13, further comprising an amino acid sequence for an immunostimulating carrier protein.
- 17. A peptide or protein comprising an amino acid sequence $X_1LYQYMDDV$, wherein X_1 is any hydrophobic amino acid.

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18. The peptide or protein of claim 17, further comprising an acetylated N-terminmus.

- 19. The peptide or protein of claim 17, further comprising a modification to the C-terminus, the modification selected from the group consisting of amidation, esterfication, and reduction of a C-terminal amino acid carboxyl group..
- 20. A medicament comprising a peptide of claim 1 pulsed onto dendritic cells.
- 21. A medicament comprising dendritic cells transduced with a vector of claim 8